

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  Con Serv Broker	<b>FOR FURTHER ACTION</b>  see Form PCT/ISA/220 as well as, where applicable, Item 5 below.	
International application No.  PCT/GB2004/002471	International filing date (day/month/year)  10/06/2004	(Earliest) Priority Date (day/month/year)  10/06/2003
Applicant  SYMBIAN SOFTWARE LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

METHOD OF DISCOVERING A SERVICE RUNNING ON A COMPUTING DEVICE AND CONNECTING A  
CLIENT RUNNING ON A DIFFERENT COMPUTING DEVICE TO SAID SERVICE

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/002471

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L29/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, IBM-TDB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>ENGELSTAD P ET AL: "Service discovery and name resolution architectures for on-demand MANETs" CONFERENCE PAPER, 19 May 2003 (2003-05-19), pages 736-742, XP010642458 the whole document</p> <p>-----</p> <p>---/---</p>	1-22

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

° Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\* & \* document member of the same patent family

Date of the actual completion of the international search

2 November 2004

Date of mailing of the international search report

12/11/2004

Name and mailing address of the ISA

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Raible, M

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/002471

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>AGRAWAL R ET AL: "Vinci: a service-oriented architecture for rapid development of Web applications" COMPUTER NETWORKS, ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM, NL, vol. 39, no. 5, 5 August 2002 (2002-08-05), pages 523-539, XP004369430 ISSN: 1389-1286 First complete paragraph on page 528 until "... should the connection fail" on page 529. page 528, left-hand column - page 529, left-hand column; figure 4</p>	1-22
A	<p>CHESHIRE S: "draft-cheshire-dnsextdns-sd-00.txt" IETF DRAFT, 20 December 2002 (2002-12-20), XP015000500 IETF, GENEVA page 11 - page 22</p>	1-22
A	<p>LI C ET AL: "Combine concept of agent and service to build distributed object-oriented system" FUTURE GENERATIONS COMPUTER SYSTEMS, ELSEVIER SCIENCE PUBLISHERS. AMSTERDAM, NL, vol. 19, no. 2, February 2003 (2003-02), pages 161-171, XP004401829 ISSN: 0167-739X the whole document</p>	1-22
A	<p>KOZAT U C ET AL: "Network layer support for service discovery in mobile ad hoc networks" IEEE INFOCOM 2003. TWENTY-SECOND ANNUAL JOINT CONFERENCE OF THE IEEE COMPUTER AND COMMUNICATIONS SOCIETIES (IEEE CAT. NO.03CH37428) IEEE PISCATAWAY, NJ, USA, vol. 3, 3 April 2003 (2003-04-03), pages 1965-1975 vol., XP002303330 ISBN: 0-7803-7752-4 "Overview" page 1966 - page 1967 Middle of the page, Passage: "Now, we have the virtual .... by multicasting or broadcasting." page 1969, right-hand column</p>	1,12

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/002471

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>A. GULBRANDSEN; TROLL TECHNOLOGIES; P. VIXIE; INTERNET SOFTWARE CONSORTIUM; L. ESIBOV; MICROSOFT CORP.: "A DNS RR for specifying the location of services (DNS SRV)"</p> <p>REQUEST FOR COMMENTS, February 2000 (2000-02), pages 1-12, XP015008565 IETF, GENEVA Explanation of Parameters Service, Port, Target page 2 - page 4 Passage "The Port Number" page 6</p>	1-22
A	<p>"Specification of the Bluetooth Sytem, Part E, Service Discovery Protocol (SDP)" BLUETOOTH SPECIFICATION, 1 December 1999 (1999-12-01), XP002245657 page 330 - page 343</p>	1,12
A	<p>UNKNOWN: "UPnP, Jini and Salutation - A look at some popular coordination frameworks for future networked devices" 'Online! 17 June 1999 (1999-06-17), pages 1-8, XP002303331 INTERNET Retrieved from the Internet: URL:www.cswl.com/whiteppr/tech/upnp.html&gt; 'retrieved on 2004-10-29! the whole document</p>	1,12
A	<p>THE SALUTATION CONSORTIUM: "Salutation Architecture Specification (Part 1) Version 2.1" SALUTATION ARCHITECTURE SPECIFICATION, 'Online! 31 December 1999 (1999-12-31), pages 1-81, XP002303332 Retrieved from the Internet: URL:www.salutation.org/spec&gt; 'retrieved on 2004-10-29! page 4 - page 28 page 52 - page 58</p>	1,12
A	<p>CHRISTENSEN E ET AL: "Web Services Description Language (WSDL) 1.1" WWW CONSORTIUM SUBMISSION, 'Online! 15 March 2001 (2001-03-15), XP002203550 INTERNET Retrieved from the Internet: URL:www.w3.org/tr/wsdl&gt; 'retrieved on 2004-10-29! the whole document</p>	